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INTELLECTUAL PROPERTY LAW

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| FACSIMILE NUMBER | | RECIPIENT AND COMPANY | CONFIRMATION NUMBER | WILL FOLLOW |
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| 703-746-3141 | | Examiner Sharon TURNER U.S. Patent and Trademark Office | | No |

PERSONAL COMMUNICATION TO EXAMINER TURNER - NOT TO BE PUT IN ANY FILE

Re: Allowed claims in U.S. 08/431,048 (Patent No. 6,531,586)

Dear Examiner Turner,
Enclosed are the claims allowed in the above-identified patent application. Please call me if you have any further questions.
Sincerely,
Anna

PLEASE RETURN TO ANNA LÖVQVIST, PH.D.

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U.S. Serial No. 08/431,048
Docket No. 1034/0F808

ALLOWED CLAIMS

191. An isolated polynucleotide encoding a mammalian Alzheimer's Related Membrane Protein (ARMP) having greater than 95% homology with SEQ ID NO:2 or SEQ ID NO:4.

192. The isolated polynucleotide of claim 191, wherein the polynucleotide is a polydeoxyribonucleotide.

193. The isolated polynucleotide of claim 191, wherein the polynucleotide is a polyribonucleotide.

194. The isolated polynucleotide of claim 191, wherein the ARMP is a human ARMP.

195. The isolated polynucleotide of claim 194, wherein the ARMP comprises the amino acid sequence of SEQ ID NO:2 or the complement of said polynucleotide.

196. The isolated polynucleotide of claim 195, wherein the polynucleotide is a polydeoxyribonucleotide.

197. The isolated polynucleotide of claim 195, wherein the polynucleotide is a polyribonucleotide.

198. The isolated polynucleotide of claim 195, comprising the nucleic acid sequence of SEQ ID NO:1.

199. The isolated polynucleotide of claim 194, wherein the polynucleotide differs from SEQ ID NO:1 by one or more nucleic acid substitutions at a position selected from the group consisting of 685, 747, 986, 1105, and 1478 of SEQ ID NO:1 or wherein the ARMP differs from SEQ ID NO:2 by one or more amino acid substitutions at a position selected from the group consisting of 146, 163, 246, 286, and 410 of SEQ ID NO:2.

200. The isolated polynucleotide of claim 199, wherein the substitution is a C at position 685 of SEQ ID NO:1.

201. The isolated polynucleotide of claim 199, wherein the substitution is a G at position 747 of SEQ ID NO:1.

202. The isolated polynucleotide of claim 199, wherein the substitution is an A at position 986 of SEQ ID NO:1.

203. The isolated polynucleotide of claim 199, wherein the substitution is a G at position 1105 of SEQ ID NO:1.

204. The isolated polynucleotide of claim 199, wherein the substitution is an A at position 1478 of SEQ ID NO:1.

205. The isolated polynucleotide of claim 199, wherein the ARMP has a substitution at position 146 of SEQ ID NO:2.

206. The isolated polynucleotide of claim 205, wherein the substitution is a Leu at position 146 of SEQ ID NO:2.

207. The isolated polynucleotide of claim 199, wherein the ARMP has a substitution at position 163 of SEQ ID NO:2.

208. The isolated polynucleotide of claim 207, wherein the substitution is an Arg at position 163 of SEQ ID NO:2.

209. The isolated polynucleotide of claim 199, wherein the ARMP has a substitution at position 246 of SEQ ID NO:2.

210. The isolated polynucleotide of claim 209, wherein the substitution is a Glu at position 246 of SEQ ID NO:2.

211. The isolated polynucleotide of claim 199, wherein the ARMP has a substitution at position 286 of SEQ ID NO:2.

212. The isolated polynucleotide of claim 211, wherein the substitution is a Val at position 286 of SEQ ID NO:2.

213. The isolated polynucleotide of claim 199, wherein the ARMP has a substitution at position 410 of SEQ ID NO:2.

214. The isolated polynucleotide of claim 213, wherein the substitution is a Tyr at position 410 of SEQ ID NO:2.

215. The isolated polynucleotide of claim 199, wherein the polynucleotide is a polydeoxyribonucleotide.

216. The isolated polynucleotide of claim 199, wherein the polynucleotide is a polyribonucleotide.

217. The isolated polynucleotide of claim 191, wherein the ARMP is a mouse ARMP.

218. The isolated polynucleotide of claim 217, wherein the ARMP comprises the amino acid sequence of SEQ ID NO:4 or the complement of said polynucleotide.

219. The isolated polynucleotide of claim 218, wherein the polynucleotide is a polydeoxyribonucleotide.

220. The isolated polynucleotide of claim 218, wherein the polynucleotide is a polyribonucleotide.

221. The isolated polynucleotide of claim 218, wherein the polynucleotide comprises the nucleic acid sequence of SEQ ID NO:3.

222. A vector comprising an isolated polynucleotide encoding a mammalian Alzheimer's Related Membrane Protein (ARMP) having greater than 95% homology with SEQ ID NO:2 or SEQ ID NO:4.

223. A host cell comprising the vector of claim 222.

224. A method of producing ARMP comprising culturing the host cell of claim 223 under conditions such that the polynucleotide encoding ARMP is expressed to detectable levels.

225. The vector of claim 222, wherein the mammalian ARMP is a mutant ARMP.

226. A host cell comprising the vector of claim 225.

227. The vector of claim 225, wherein the ARMP differs from SEQ ID NO:2 by one or more amino acid substitutions at a position selected from the group consisting of 146, 163, 246, 286, and 410 of SEQ ID NO:2.

228. A host cell comprising the vector of claim 227.

229. A method of producing ARMP comprising culturing the host cell of claim 228 under conditions such that the polynucleotide encoding ARMP is expressed to detectable levels.

230. The vector of claim 227, wherein the substitution is a Leu at position 146 of SEQ ID NO:2, an Arg at position 163 of SEQ ID NO:2, a Glu at position 246 of SEQ ID NO:2, a Val at position 286 of SEQ ID NO:2, or a Tyr at position 410 of SEQ ID NO:2.

231. A host cell comprising the vector of claim 230.

232. The vector of claim 222, wherein the polynucleotide encodes the amino acid sequence of SEQ ID NO:2.

233. A host cell comprising the vector of claim 232.

234. The vector of claim 222, wherein the polynucleotide encodes the amino acid sequence of SEQ ID NO:4.

235. A host cell comprising the vector of claim 234.

236. An isolated polynucleotide sequence encoding the human ARMP encoded by the polynucleotide sequence contained in ATCC Accession No. 97124.